1. Complete the square for the following expressions.
   
   (a) \( x^2 - 6x + 15 \)
   (b) \( x^2 + 2x - 8 \)
   (c) \( 4x^2 - 8x + 3 \)

2. Complete the square for the following equations. (Bonus: Solve the equations.)
   
   (a) \( x^2 - 8x + 12 = 0 \)
   (b) \( x^2 + 3x - 6 = 0 \)
   (c) \( -3x^2 - 6x + 15 = 0 \)

3. Find the center and radius of the circles represented by the following equations.  
   
   Hint: Use the method of completing the square to rewrite the equation in the form
   
   \[
   (x - h)^2 + (y - k)^2 = r^2
   \]
   
   where \((h, k)\) is the center and \(r\) is the radius.

   (a) \( x^2 + y^2 - 6x - 8y = 0 \)
   (b) \( x^2 + y^2 - 4x - 2y = 11 \)
   (c) \( 2x^2 + 2y^2 + 4x + 8y - 20 = 0 \)